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TITLE: ANTIMICROBIAL AND ANTIFUNGAL COMPOSITION FOR
THERMOPLASTIC RESIN

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ABSTRACT:

PURPOSE: To obtain composition for a thermoplastic resin, excellent in heat resistance and antifungal properties by synergistic effects and having high safety by effectively blending two ingredients of 2-octyl-4-isothiazolin-3-one with N-(2,4,6-trichlorophenyl)maleimide.

CONSTITUTION: This antimicrobial and antifungal composition for incorporating a thermoplastic resin is obtained by blending two ingredients of 2-octyl-4-isothiazolin-3-one with N-(2,4,6-trichlorophenyl)maleimide at a blending ratio within the range of about (1:20) to (30:1), preferably (1:15) to (10:1). For example, a polyethylene resin, a polyester resin or a polyamide

resin is cited as the thermoplastic resin in which the antimicrobial and antifungal agent is used; however, an olefin-based resin is especially preferred. The amount of the added antimicrobial and antifungal agent based on the resin is about 0.005-0.1wt.% and the temperature in addition is preferably about 160-280°C. When the 2-octyl-4-isothiazolin-3-one is blended with zinc oxide at about (1:1) to (1:20) ratio, the antimicrobial and antifungal activities and heat-resistant temperature can be raised.

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